

# **VIRGINIA CLASS IMPLEMENTATION**

## **ITEM UNIQUE IDENTIFIATION (IUID)**



**VIRGINIA CLASS ILS Supply  
Support  
8 April 2010**



# VIRGINIA CLASS IUID Implementation Plan

---

- Original plan issued 6/10/05
  - Block I<sup>1</sup> & II<sup>2</sup> grandfathered
  - POM<sup>3</sup> 8 and POM 10 submittals denied
  - Limited Program Office funding internally
- Revision A Draft
  - ECD: April 2010
  - 28 pages
  - Implementation Strategy
    - Phased approach
    - Block III<sup>4</sup>
    - Legacy<sup>5</sup>
    - Other

<sup>1</sup>First phase of construction of VIRGINIA Class Submarines (SSN 774 through SSN 777)

<sup>2</sup>Second phase of construction of VIRGINIA Class Submarines (SSN 778 through SSN 783)

<sup>3</sup>Program Objectives Memorandum

<sup>4</sup>Third phase of construction of VIRGINIA Class Submarines (SSN 784 through SSN 791)

<sup>5</sup>Submarines of the VIRGINIA Class that have been delivered to the U. S. Navy



# VIRGINIA CLASS IUID Unit Implementation

---

## • **Block III Units**

- Construction Contract signed 12/22/08
- ITMP<sup>1</sup> to develop detail implementation plan for CFE<sup>2</sup> components
  - Identify by HSC, and specific items (i.e.SS/L1, FBW FC, DSS-SOC)<sup>3</sup>
  - Signed 1/8/09
  - 40 % complete as of 3/16/10
    - Evaluating three options for marking
      - » Construction activity - part of product structure
      - » Post construction application
      - » Vendor provide
    - Approximately 11,200 Configuration Level IUID worthy components
  - Final deliverable 6/30/10

## • **Legacy Units**

- MFOM<sup>4</sup> Large Scale Fleet Demonstration
  - Original candidate (SSN 778) did not participate due to tag out issue
  - New candidate to be determined
  - Requires software upgrade, ECI NTDPs 4060<sup>5</sup> (Software approved, installation pending)

<sup>1</sup>Individual Task Management Plan

<sup>2</sup>Contractor Furnished Equipment

<sup>3</sup>Refer to slide 4 of this presentation for examples of how IUID Candidates are selected

<sup>4</sup>Maintenance Figure of Merit

<sup>5</sup>Engineering Change Index (ECI) Non Tactical Data Processing System (NTDPS) 4060 approved 26JUN09



# IUID Candidate Selection

## Example based on SSN778

HSC	RIC Number	PRID	Equipment Functional Description (EFD)	Part Type	VENDOR PART NUMBER	MAKE FROM PART NUMBER	NOUN NAME	Std Unit Price	SHIPBOARD LOCATION	IUID Canidate
12331CL3	31A040064Y	LPT TRUNK	TRUNK, LOGISTICS PLUG TRUNK ASSEMBLY	DSS	7383858-A2	H5470001-A2	TRUNK, LOGISTICS PLUG TRUNK ASSEMBLY	NA	FC-1P-056-CL	Y
55111DC16	XSUPPORTITM	F-060	AHP, EXT CHARGING CONNECTION, HP AIR	HSC	551-6408425 ASSY 96	211080275	ADAPTER ASSY	\$5,381.67	NA	Y
56923CE25	XSUPPORTITM	1DC-501-LS-002	SC, SENSITIVE SWITCH, ZERO DEG PLANE POSITION #2	FBW	21EN90-R1	21EN90-R1	SWITCH	\$344.88	FC-1P-022-CL	Y
49911K11	890006030	ESM PARTS	CMD&SURVL MISC PT, ESM PARTS WBS 451	HSC / 89K	H687-0501 89K	89K EWSM	*TRANSDUCER,PRESSURE (41GP21EU6000G1-4A3)	\$6,467.90	NA	Y
55621DH9104	883031562	HE-9104	EXT HYD, SIMPLEX PMP #1 DISCHARGE CHECK VALVE	HSC	PLC-11440-12	10-08-1100F	VALVE	NA	FC-3P-060-SB	Y
55621DH9201	883031562	HE-9201	EXT HYD, MAST MANIFOLD #1 RETURN CHECK VALVE	HSC	PLC-11440-12	10-08-1100F	VALVE	NA	FC-1P-031-SB	Y
55631SA1	52A010005	HYD ACC-1	SS HYDR, ACCUMULATOR, PORT ER FLOOD CONTROL	HSC / LVL1 / SS	556-7106779-B	H7928002-B	ACCUMULATOR	NA	ER-ML-110-SB	Y
15111CL5	31A010250	BRDG PORT DR	BRIDGE, PORT ACCESS DOOR ASSEMBLY	HSC	151-7286408-A2	H4620412-A2	BRIDGE, PORT ACCESS DOOR ASSEMBLY	NA	FC-EX-024-CL	N

### PART TYPES

HSC = Hierarchical Structure Code

FBW = Fly-By-Wire

SS = SubSafe

LVL1 = MIC Level 1

89K = System Level APL (\* Multiple Parts Associated With Each APL)

DSS-SOC = Deep Submergence Systems Scop Of Certification



# VIRGINIA CLASS IUID

## Other Activities

---

- COATS<sup>1</sup>
  - Electric Boat Corporation
    - NITSS<sup>2</sup> database has IUID data elements for approx 8000-9000 items per submarine
    - SPAWAR provided QCTS<sup>3</sup> marking cart / equipment
    - Labeling now; 100% compliant
  - Northrop Grumman Shipbuilding, Newport News
    - Second QCTS<sup>3</sup> cart soon to arrive.
- SOM<sup>4</sup>
  - Managed by Naval Undersea Warfare Center, Keyport for PMS450
  - Some items meet marking criteria
  - Next Quarterly Inventory Report with IUID
- TE Review
  - > 95% of SEAL Beach provided SPETERL<sup>5</sup> Test Equipment marked with Unique Item Identifier
- PARM<sup>6</sup>
  - GFE<sup>7</sup> material currently being marked by Lockheed Martin, Manassas

<sup>1</sup>Command & Control System Module Off-Hull Assembly Test Site

<sup>2</sup>Non-Propulsion Electronic System (NPES) Integration and Test Support System

<sup>3</sup>Quality Compliance Tool Suite

<sup>4</sup>Sponsor Owned Material

<sup>5</sup>Ship's Portable Electronic Test Equipment Requirement List

<sup>6</sup>Program Acquisition Resource Manager

<sup>7</sup>Government Furnished Equipment



# VIRGINIA CLASS IUID

## Other Uses

---

- Concept of marking HAZMAT<sup>1</sup> with an IUID hybrid program
  - Potential Benefits
    - Automate SHIMS<sup>2</sup> database
    - Pilot at CRIMP<sup>3</sup>
    - Cradle to grave tracking
  - Status of Initiative
    - Approached NAVSEA Managers for HAZMAT<sup>1</sup> / SHIMS<sup>2</sup>
    - Approached Submarine Force

<sup>1</sup>Hazardous Material

<sup>2</sup>Submarine Hazardous Material Inventory & Management System

<sup>3</sup>Consolidated Hazardous Material Reutilization & Inventory Management Program



# **VIRGINIA CLASS IUID IMPLEMENTATION**

---

– Questions